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ARCHITECTURE FOR LARGE OPTICAL FIBER ARRAY USING STANDARD 1 \times 2 COUPLERS

Abstract of the Disclosure

Sensor arrays utilizing standard 1 × 2 couplers reduce the differences in the returned optical power levels by appropriate selection of the coupling ratios. Preferred embodiments are described that comprise 6 distribution fiber lines and 16 return fiber lines. One embodiment includes 16 sensor groups in which each sensor group has a dedicated return line. In another embodiment, 8 sensor groups are configured so that no two adjacent sensors have either a common distribution fiber line or a common return fiber line.

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